

Method of Inhibiting Proteins to Dramatically Increase Muscle Mass and Strength

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ABSTRACT

Researchers at University of California, Davis, have developed a novel method for increasing the rate of muscle growth after exercise by inhibiting known proteins.

FULL DESCRIPTION

In the absence of some proteins, muscle grows twice as much as when these proteins are present. Using a knock-out mice study, UC Davis researchers have demonstrated that resistance exercise increased muscle mass by 77% in the wild-type mice, whereas muscle mass increased by 133% in the knockout mice. The data from this study concluded that muscle fibers grew more than in the wild-type in the absence of certain proteins. Since this protein can be inhibited with drugs and nutrients, inhibiting this protein using some know inhibitors could be a potential strategy to increase muscle mass and strength.

APPLICATIONS

- ▶ Novel method of increasing muscle hypertrophy

FEATURES/BENEFITS

- ▶ Increase the muscle mass build up from exercise.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	9,480,675	11/01/2016	2012-431

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OTHER INFORMATION

KEYWORDS

Sports health, Nutritional supplement, Muscle growth, Hypertrophy

CATEGORIZED AS

- ▶ **Biotechnology**
- ▶ Health
- ▶ **Medical**
- ▶ Other

RELATED CASES

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